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200-#244  
9-05-02  
PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	10/001,846
		Filing Date	November 26, 2001
		First Named Inventor	Weonwoo Kim
		Group Art Unit	2651
		Examiner Name	Unknown
Total Number of Pages in This Submission	6	Attorney Docket Number	155634-0115 (P092)

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 44 References
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Ben J. Yorks, Esq. Reg. No. 33,609 IRELL & MANELLA LLP
Signature	
Date	August 26, 2002

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: <span style="border: 1px solid black; padding: 2px;">August 26, 2002</span>	
Typed or printed name	Aimee V. Hilado
Signature	
Date	August 26, 2002

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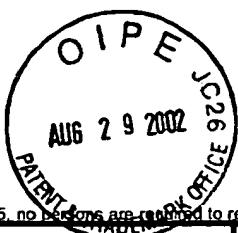
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PTO/SB/17 (11-01)

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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 00.00)

## Complaint Known

Application Number	10/001,846
Filing Date	November 26, 2001
First Named Inventor	Weonwoo Kim
Examiner Name	Unknown
Group Art Unit	2651
Attorney Docket No.	155634-0115 (P092)

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None
 Deposit Account:

Deposit Account Number	09-0946
Deposit Account Name	Irell & Manella LLP

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
101 740	201 370	Utility filing fee	
106 330	206 165	Design filing fee	
107 510	207 255	Plant filing fee	
108 740	208 370	Reissue filing fee	
114 160	214 80	Provisional filing fee	

SUBTOTAL (1) (\$)

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			-3** =	X	=

Large Entity	Small Entity	Fee Description
Fee Code (\$)	Fee Code (\$)	
103 18	203 9	Claims in excess of 20
102 84	202 42	Independent claims in excess of 3
104 280	204 140	Multiple dependent claim, if not paid
109 84	209 42	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 400	216 200	Extension for reply within second month	
117 920	217 460	Extension for reply within third month	
118 1,440	218 720	Extension for reply within fourth month	
128 1,960	228 980	Extension for reply within fifth month	
119 320	219 160	Notice of Appeal	
120 320	220 160	Filing a brief in support of an appeal	
121 280	221 140	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,280	241 640	Petition to revive - unintentional	
142 1,280	242 640	Utility issue fee (or reissue)	
143 460	243 230	Design issue fee	
144 620	244 310	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	00.00
126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 740	246 370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 740	249 370	For each additional invention to be examined (37 CFR § 1.129(b))	
179 740	279 370	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 00.00)

SUBMITTED BY		Complete (if applicable)		
Name (Print/Type)	Ben J. Yorks	Registration No. (Attorney/Agent)	33,609	Telephone (949) 760-0991
Signature		Date	August 26, 2002	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kim et al.

Application No.: 10/001,846

Filed: November 26, 2001

For: INSTALLATION OF HEATER INTO HARD DISK DRIVE  
TO IMPROVE RELIABILITY AND PERFORMANCE AT  
LOW TEMPERATURES

Examiner: Unknown

Art Group: 2651

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INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS

Washington, D.C. 20231

Dear Sir:

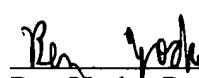
In accordance with Applicant's duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97-1.98, Applicant submits the enclosed Form PTO-1449, along with copies of the documents listed therein.

It is hereby stated that this Information Disclosure Statement is being filed prior to the issuance of the initial Office Action, and therefore, no petition or fee is required. However, in the event a petition is needed for consideration of this Information Disclosure Statement, Applicant hereby so petitions. Please charge any fee due to Deposit Account No. 09-0946. An extra copy of the Fee Transmittal is enclosed for Deposit Account charging purposes.

Respectfully submitted,

IRELL & MANELLA LLP

Dated: August 26, 2002

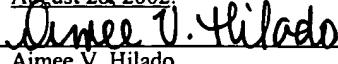
  
\_\_\_\_\_  
Ben York, Reg. No. 33,609

840 Newport Center Drive  
Suite 400  
Newport Beach, CA 92660  
Telephone: (949) 760-0991

Certificate of Mailing

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August 26, 2002.

  
\_\_\_\_\_  
Aimee V. Hilado

8/26/2002

Date



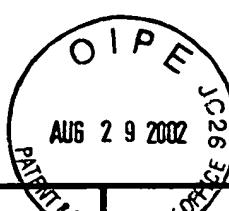
Form PTO/SB/08A (Modified)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if known</b>	
				Application Number 10/001,846 Filing Date November 26, 2001 First Named Inventor Weonwoo Kim Group Art Unit 2651 Examiner Name Unknown Attorney Docket Number 155634-0115 (P092)	
Sheet	1	of	2		

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code		
	1.	6,094,316		Pham et al.	07-25-2000
	2.	5,961,658		Reed et al.	10-05-1999
	3.	5,844,920		Zook et al.	12-01-1998
	4.	5,781,133		Tsang	07-14-1998
	5.	5,898,532		Du et al.	04-27-1999
	6.	5,822,143		Cloke et al.	10-13-1998
	7.	5,862,007		Pham et al.	01-19-1999
	8.	5,566,101		Kodra	10-15-1996
	9.	5,590,154		Forni et al.	12-31-1996
	10.	5,497,111		Cunningham	03-05-1996
	11.	5,367,409		Ottesen et al.	11-22-1994
	12.	5,367,409		Ottesen et al.	11-22-1994
	13.	5,388,127		Scarpa	02-07-1995
	14.	5,301,080		Ottesen et al.	04-05-1994
	15.	5,335,121		Bombeeck	08-02-1994
	16.	5,228,429		Hatano	07-20-1993
	17.	5,203,781		Bonati et al.	04-20-1993
	18.	5,217,001		Nakao et al.	06-08-1993
	19.	5,233,482		Galbraith et al.	08-03-1993
	20.	5,368,015		Wilk	11-29-1994
	21.	5,217,003		Wilk	06-08-1993
	22.	5,217,453		Wilk	06-08-1993
	23.	5,259,365		Nishikori et al.	11-09-1993
	24.	4,996,975		Nakamura	03-05-1991
	25.	5,078,714		Katims	01-07-1992
	26.	5,125,888		Howard et al.	06-30-1992
	27.	4,974,607		Miwa	12-04-1990
	28.	4,887,605		Angelsen et al.	12-19-1989
	29.	4,788,975		Shturman et al.	12-06-1988
	30.	4,785,806		Deckelbaum	11-22-1988
	31.	4,672,963		Barken	06-16-1987
	32.	5,104,392		Kittrill et al.	04-14-1992
	33.	4,621,618		Omagari	11-11-1986
	34.	4,633,304		Nagasaki	12-30-1986
	35.	4,573,452		Greenberg	03-04-1986

Examiner: \_\_\_\_\_ Date Considered: \_\_\_\_\_

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO/SB/08A (Modified)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Complete if known		
				Application Number		10/001,846
				Filing Date		November 26, 2001
				First Named Inventor		Weonwoo Kim
				Group Art Unit		2651
				Examiner Name	Unknown	
Sheet	2	of	2	Attorney Docket Number	155634-0115 (P092)	

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	36.	4,572,198		Condrington	02-25-1986	
	37.	4,790,813		Kensey	12-13-1988	
	38.	4,758,222		McCoy	07-19-1988	
	39.	4,601,705		McCoy	07-22-1986	
	40.	4,499,895		Takayama	02-19-1985	
	41.	4,875,897		Lee	10-24-1989	
	42.	4,343,300		Hattori	08-10-1982	
	43.	3,834,392		Lampman et al.	09-10-1974	

<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office	Number	Kind Code			
44.		EP 0079524 A1		Takamatsu	05-25-1983		
45.							
46.							
47.							

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>		
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	48.	
	49.	
	50.	
	51.	

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